UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/891,778	06/25/2001	William Hennenlotter	CSCO-98061	1806

7590	06/06/2006

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EXAMINER
SHAH, CHIRAG G

ART UNIT	PAPER NUMBER
2616	

DATE MAILED: 06/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
Supplemental	09/891,778	HENNENLOTTER, WILLIAM
Notice of Allowability	Examiner	Art Unit	
	Chirag G. Shah	2616	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.
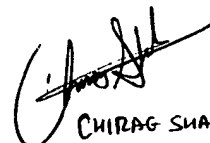
1. ☒ This communication is responsive to *5/30/06*.

2. ☒ The allowed claim(s) is/are *1-7, 9-20, 22-32, 39, 41-45; renumbered 1-36 respectively*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

   Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

CHIRAG SHAH
PATENT EXAMINER, 2616

Attachment(s)
1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____ .
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____ .

SUPPLEMENTAL EXAMINER'S AMENDMENT

1.   An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this Supplemental Examiner's Amendment was given in a telephone

interview with Reginald A. Ratliff on 5/30/06.

Claims 7, 20, and 39 have been amended as follows:

7. (currently amended) A method of diagramming a network having a plurality of

devices, comprising the steps of:

a)   determining a plurality of hierarchical layers for said network, wherein said

devices are arranged in said hierarchical layers;

b)   determining one or more groups in each hierarchical layer, wherein each

group includes at least one device; and

c)   displaying via a display device a multi-layered cross-sectional diagram

corresponding to said network, wherein said multi-layered cross-sectional diagram has

a plurality of cross-sectional representations which are similar to each other, wherein

said plurality of cross-sectional representations have a plurality of sizes, and wherein

each cross-sectional representation ~~is adapted to~~ visually represent<u>s</u> a group from a

hierarchical layer and ~~is adapted to~~ visually represent<u>s</u> one or more other groups from another hierarchical layer, wherein said step c) includes:

c1)   determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;

c2)   displaying via said display device a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and

c3)   displaying via said display device a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section

corresponding to a group from said second associated group of one of said second

linked groups.

20. (currently amended) A computer system comprising:

a bus;

a processor coupled to said bus; and

a computer readable memory device coupled to said bus and having computer-

executable instructions stored therein for performing a method of diagramming a

network having a plurality of devices, said method comprising the steps of:

a)   determining a plurality of hierarchical layers for said network, wherein said

devices are arranged in said hierarchical layers;

b)   determining one or more groups in each hierarchical layer, wherein each

group includes at least one device; and

c)   forming a multi-layered cross-sectional diagram corresponding to said

network, wherein said multi-layered cross-sectional diagram has a plurality of cross-

sectional representations which are similar to each other, wherein said plurality of cross-

sectional representations have a plurality of sizes, and wherein each cross-sectional

representation is adapted to visually represents a group from a hierarchical layer and is

adapted to visually represents one or more other groups from another hierarchical layer,

wherein said step c) includes:

c1)   determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;

c2)   forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and

c3)   forming a plurality of initial reduced-size cross-sectional representations each located in each section of said first cross-sectional representation, wherein each initial reduced-size cross-sectional representation is similar to said first cross-sectional representation, wherein each group from said first associated group forms one of a plurality of second linked groups each second linked group having said group from said first associated group and a second associated group having at least one group from a third hierarchical layer, wherein each initial reduced-size cross-sectional representation has a reduced-size outer portion and a reduced-size inner portion, wherein each reduced-size inner portion represents said group which is from said first associated group and which is associated with said section in which said reduced-size inner portion is located, and wherein each reduced-size outer portion has one or more reduced-size sections each reduced-size section corresponding to a group from said second associated group of one of said second linked groups.

39. (currently amended) A computer-readable medium comprising computer-executable instructions stored therein for performing a method of diagramming a network having a plurality of devices, said method comprising the steps of:

a)   determining a plurality of hierarchical layers for said network, wherein said devices are arranged in said hierarchical layers;

b)   determining one or more groups in each hierarchical layer, wherein each group includes at least one device; and

c)   forming a multi-layered cross-sectional diagram corresponding to said network, wherein said multi-layered cross-sectional diagram has a plurality of cross-sectional representations which are similar to each other, wherein said plurality of cross-sectional representations have a plurality of sizes, and wherein each cross-sectional representation is-adapted-to visually represents a group from a hierarchical layer and is adapted-to visually represents one or more other groups from another hierarchical layer, wherein said step c) includes:

c1)   determining a first linked group having a first group from a first hierarchical layer and a first associated group having at least one group from a second hierarchical layer;

c2)   forming a first cross-sectional representation corresponding to said first linked group, wherein said first cross-sectional representation has a first inner portion representing said first group and a first outer portion having one or more sections each section corresponding to a group from said first associated group; and

c3)   forming a plurality of initial reduced-size cross-sectional representations

each located in each section of said first cross-sectional representation, wherein each

initial reduced-size cross-sectional representation is similar to said first cross-sectional

representation, wherein each group from said first associated group forms one of a

plurality of second linked groups each second linked group having said group from said

first associated group and a second associated group having at least one group from a

third hierarchical layer, wherein each initial reduced-size cross-sectional representation

has a reduced-size outer portion and a reduced-size inner portion, wherein each

reduced-size inner portion represents said group which is from said first associated

group and which is associated with said section in which said reduced-size inner portion

is located, and wherein each reduced-size outer portion has one or more reduced-size

sections each reduced-size section corresponding to a group from said second

associated group of one of said second linked groups.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chirag G. Shah whose telephone number is 571-272-3144. The
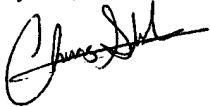
examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Doris To can be reached on 571-272-7682. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

cgs
May 31, 2006

Chirag Shah
Patent Examiner, Division 2616